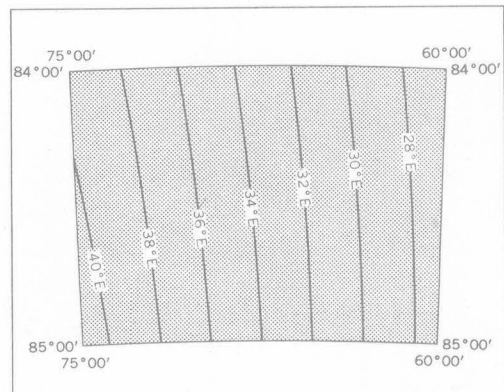


EXPLANATION

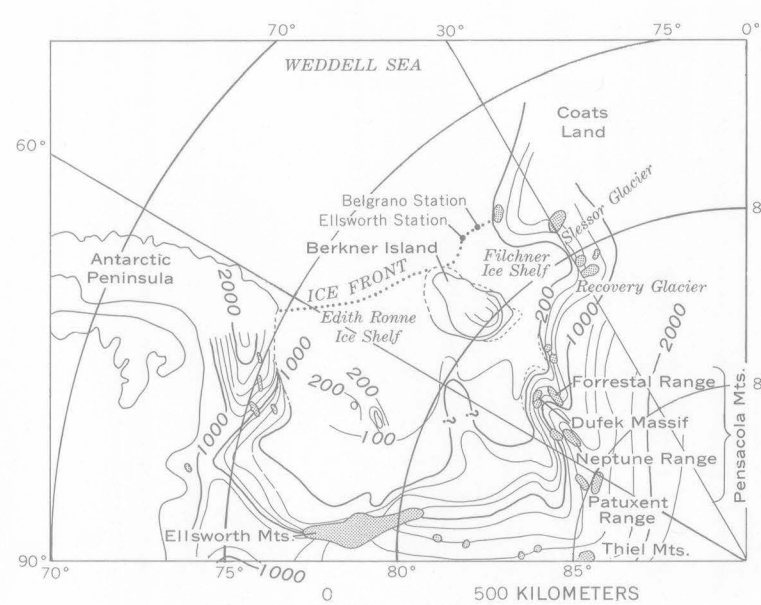
GRAVITY CONTOURS - Dashed where approximately located. Contour interval 10 milligals. Data are not terrain corrected. Contours drawn assuming all terrain corrections for stations on rock would be positive. Contours extending to map edge based on data in adjacent areas

GRAVITY STATION - Showing simple Bouguer gravity value in milligals. Bouguer gravity values on ice sheet were based on reflection-seismic thickness measurements of the ice. Bouguer correction made using densities of 0.9 and 2.67 g/cm<sup>3</sup> for ice and rock respectively. On grounded ice the Bouguer correction was made by subtracting the effect of slabs of ice and rock of combined thickness equal to the elevation using appropriate densities. If the ice-rock contact is below sea level an additional correction was made by adding the effect of slab of 2.67-0.9 = 1.77 g/cm<sup>3</sup> of a thickness equal to ice thickness below sea level

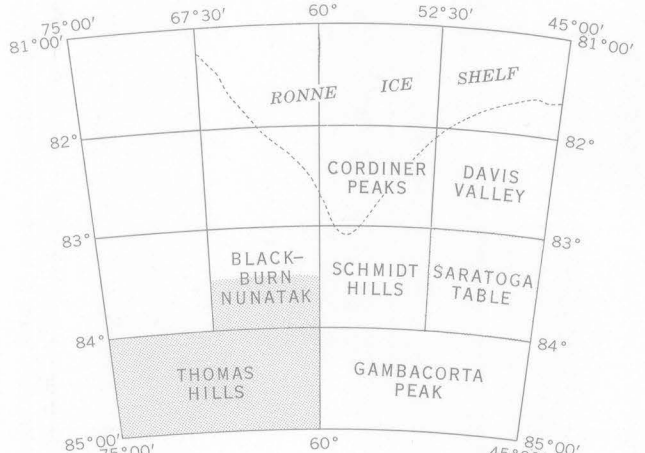
COMPILED DIAGRAM



Photogrammetric compilation  
Isogonic lines compiled from U.S.N.D.O. Chart 1706 S, 1965

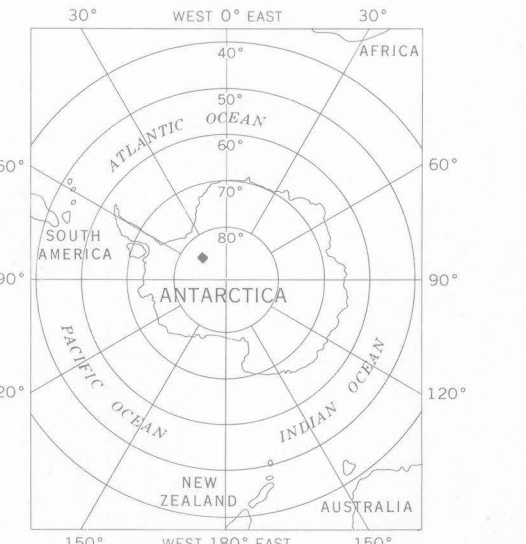


INDEX MAP OF THE PENSACOLA MOUNTAINS REGION SHOWING SNOW SURFACE ELEVATION, CONTOUR INTERVAL 200 METERS; 100 METER CONTOURS SHOWN ON ICE SHELF. SHADED AREA IS EXPOSED BEDROCK



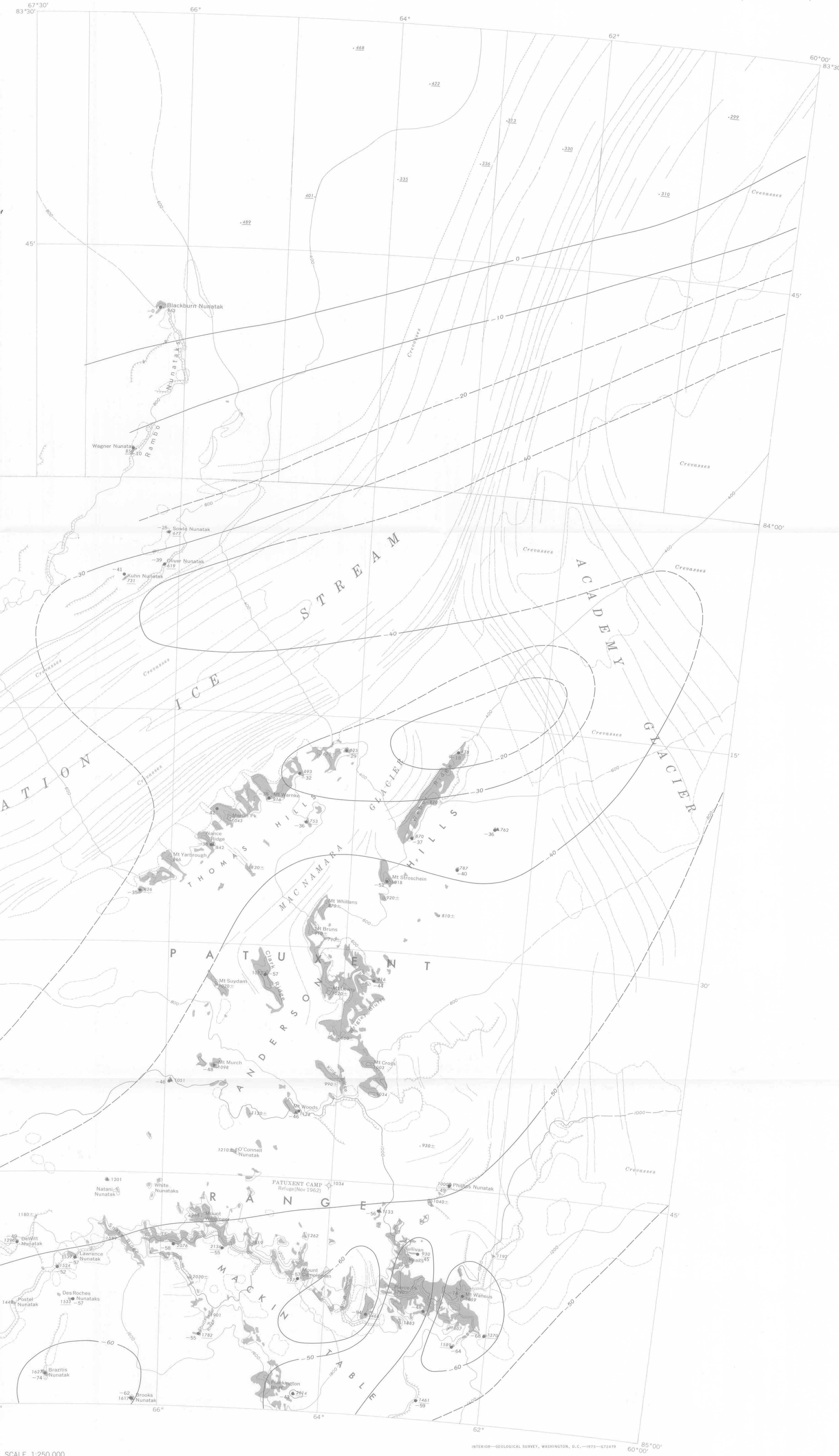
INDEX OF THE PENSACOLA MOUNTAINS REGION SHOWING MAP AREA (SHADED), ICE SHELF AND PUBLISHED TOPOGRAPHIC QUADRANGLES

LOCATION DIAGRAM

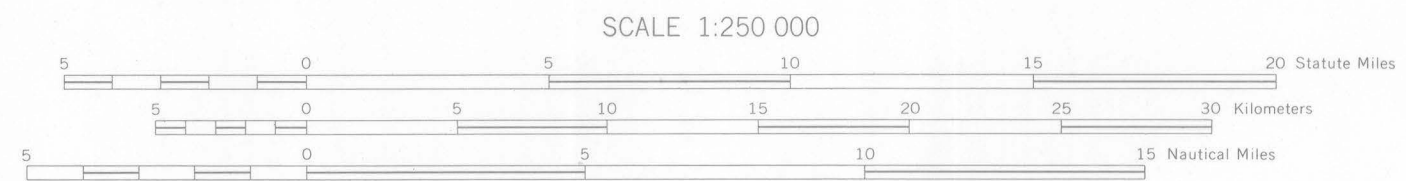


TOPOGRAPHIC MAP LEGEND

- Contour lines (definite) .....
- (approximate) .....
- (conjectural) .....
- Cliff or escarpment .....
- Sleep slope .....
- Small hillocks .....
- Intersected control stations .....
- Photogrammetric elevations .....
- Ice thickness .....
- Astro control station .....
- Survey control stations .....
- Traverse route with spot height .....
- Moraine .....
- Glacier .....
- Crevasse .....
- Coastline under ice (definite; indefinite) .....
- Ice shelf .....
- Icebergs .....
- Fast or bay ice .....



Base from U.S. Geological Survey, 1964



Polar Stereographic Projection—Standard Parallel 80°14'  
CONTOUR INTERVAL 200 METERS—DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1973—672479  
Gravity surveyed in 1965-66  
Aircraft support by U.S. Army

SIMPLE BOUGUER GRAVITY MAP OF THE THOMAS HILLS QUADRANGLE AND PART OF THE BLACKBURN NUNATAK QUADRANGLE, ANTARCTICA

By  
John C. Behrendt, William Rambo, and Laurent Meister  
1973